

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	36	(@ad<"20000106") and ((vertical and (board or pwb pr pcb)) near (chip or die or package))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:45
L2	13	L1 and angle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 16:58
L3	1452	(@ad<"20000106") and (vertical near (chip or die or package))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:38
L4	81	L3 and angle and (ball\$1 or bump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:04
L5	7	("5057907" "5229916" "5517754" "5530623" "5604377" "5760471" "5828125").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 16:59
L6	8	("6005776").URPN.	USPAT	OR	OFF	2005/05/22 17:01
L7	26	("3179913" "3370203" "3459998" "3904934" "4288841" "4502098" "4574331" "4646128" "4727410" "4823233" "4833568" "4862249" "4868712" "4953005" "5016138" "5019945" "5107328" "5786628" "5798571" "5956236" "6005776" "6196443" "6198164").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:02

L8	28	("3501681" "3663184" "3760238" "3770874" "3871014" "3942187" "4074342" "4113578" "4855809" "4948754" "4950623" "4962058" "5113314" "5160409" "5162257" "5194137" "5250843" "5293006" "5327013" "5327327" "5347428" "5354711" "5406701" "5424920" "5432729" "5453582" "5616962").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:03
L9	9	("4525921" "4617160" "4646128" "4704319" "4706166" "4764846" "4983533" "5025306" "5104820").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:06
L10	32	("5327327").URPN.	USPAT	OR	OFF	2005/05/22 17:06
L11	11	("4992908" "5019943" "5200364" "5239447" "5260601" "5327327" "5349541" "5444294" "5451815" "5471097" "5726492").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:10
L12	2	("5016138" "5313096").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:12
L13	17	("5726492").URPN.	USPAT	OR	OFF	2005/05/22 17:12
L14	8	("4868712" "4894706" "5434745" "5611876" "5708297" "5726492" "5786628" "5923080").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:16
L15	5	("6380616").URPN.	USPAT	OR	OFF	2005/05/22 17:17
L16	8	("4868712" "4894706" "5434745" "5611876" "5708297" "5726492" "5786628" "5923080").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:17

L17	29	("3105869" "3748479" "3769091" "3904933" "4208698" "4266282" "4296456" "4351706" "4417392" "4426689" "4437235" "4451845" "4500905" "4525921" "4528530" "4617160" "4646128" "4706166" "4764846" "4897708" "4956746" "4959749" "4984064" "4992908" "5019943" "5019946" "5092782" "5103247").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:19
L18	3	("4074342" "4616655" "4984064").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:19
L19	14	("5103247").URPN.	USPAT	OR	OFF	2005/05/22 17:20
L20	4	("3949274" "4304624" "4502098" "4703170").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:21
L21	29	("4992908").URPN.	USPAT	OR	OFF	2005/05/22 17:22
L22	20	("4622574" "4992908" "5146308" "5266833" "5444304" "5450289" "5451815" "5471368" "5517754" "5592019" "5593927" "5606198" "5635670" "5635760" "5661087" "5668409" "5863813" "5940277" "6235551" "RE34794").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:25
L23	2	("6410406").URPN.	USPAT	OR	OFF	2005/05/22 17:31
L24	1	("3105869").PN.	USOCR	OR	OFF	2005/05/22 17:31
L25	17	("3105869").URPN.	USPAT	OR	OFF	2005/05/22 17:33
L26	13	("5281852" "5313096" "5327327" "5347428" "5397916" "5426072" "5426566" "5432729" "5523619" "5616962" "5619067" "5677569" "5714802").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:43
L27	9	("4525921" "4617160" "4646128" "4704319" "4706166" "4764846" "4983533" "5025306" "5104820").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:45
L28	20	("5892287").URPN.	USPAT	OR	OFF	2005/05/22 17:50

L29	13	("5281852" "5313096" "5327327" "5347428" "5397916" "5426072" "5426566" "5432729" "5523619" "5616962" "5619067" "5677569" "5714802").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/22 17:52
L30	20	("5892287").URPN.	USPAT	OR	OFF	2005/05/22 17:52
L31	16807	(@ad<"20000106") and (angle with (chip or die or package))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:22
L32	393	L31 and (ball\$1 or bummp\$1) and (board or pwb or pcb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:57
L33	1	("6344162").PN.	USPAT	OR	OFF	2005/05/22 18:11
L34	108	L32 and (angle with (acute or orthogonal or 30 or "60" or "90" or slant\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:23
L35	108	L32 and (angle with (acute or orthogonal or 30 or "60" or "90" or slant\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:33
L36	3699	(@ad<"20000106") and (board or pwb pr pcb) and ((ball\$1 or bump\$1) with (side or edge)) and (chip or die or package)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:35
L37	126	L36 and (angle with (acute or orthogonal or 30 or "60" or "90" or slant\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:34
L38	165	L36 and (angle with (acute or orthogonal or 30 or "60" or "90" or slant\$2 ot tilt\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:55

L39	127	L38 not L32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:34
L40	8462	(@ad<"20000106") and (board or pwb pr pcb) and ((ball\$1 or bump\$1 or contact or connrct or connector or terminal or pad or electrode) with (side or edge)) and (chip or die or package) and vertical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:36
L41	8462	(@ad<"20000106") and (board or pwb pr pcb) and ((ball\$1 or bump\$1 or contact or connct or connector or terminal or pad or electrode) with (side or edge)) and (chip or die or package) and vertical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:36
L42	8765	(@ad<"20000106") and (board or pwb pr pcb) and ((ball\$1 or bump\$1 or contact or connect or connector or terminal or pad or electrode) with (side or edge)) and (chip or die or package) and vertical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:37
L43	8574	(@ad<"20000106") and (board or pwb or pcb) and ((ball\$1 or bump\$1 or contact or connect or connector or terminal or pad or electrode) with (side or edge)) and (chip or die or package) and vertical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:37
L44	2635	L43 and (ball\$1 or bump\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:37
L45	868	l44 and (vertical with (device or boad or pwb or pcb or chip or die or package))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:41
L46	233	(@ad<"20000106") and vertical and 257/737,738.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:55

L47	1328	(@ad<"20000106") and 257/737, 738.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:55
L48	21	L47 and (angle with (acute or orthogonal or 30 or "60" or "90" or slant\$2 ot tilt\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:58
L49	1465779	(@ad<"20000106") and (vertical or (angle with (acute or orthogonal or 30 or "60" or "90" or slant\$2 ot tilt\$2)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:59
L50	1801	L43 and (chip or die or "ic" or semiconductor) and (ball\$1 or bummp\$1) and (board or pwb or pcb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:57
L51	4278	L49 and (chip or die or "ic" or semiconductor) and (ball\$1 or bummp\$1) and (board or pwb or pcb)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 18:57
L52	388	L51 and "361"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 19:15
L53	1	("5239447").PN.	USPAT	OR	OFF	2005/05/22 19:05
L54	268	L51 and "174"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 19:14
L55	98	L54 not L52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 19:14

L56	1066	L51 and "257"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 19:15
L57	310	L51 and "438"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/22 19:16